

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008498.D
 Acq On : 27 Mar 2019 21:16
 Operator : JC/SP
 Sample : K2103-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-3H-B

Quant Time: Mar 28 02:11:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	36546	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	205245	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	179357	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	91176	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	11.13	95	87192	27.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.00%
63) Toluene-d8	8.71	98	257830	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

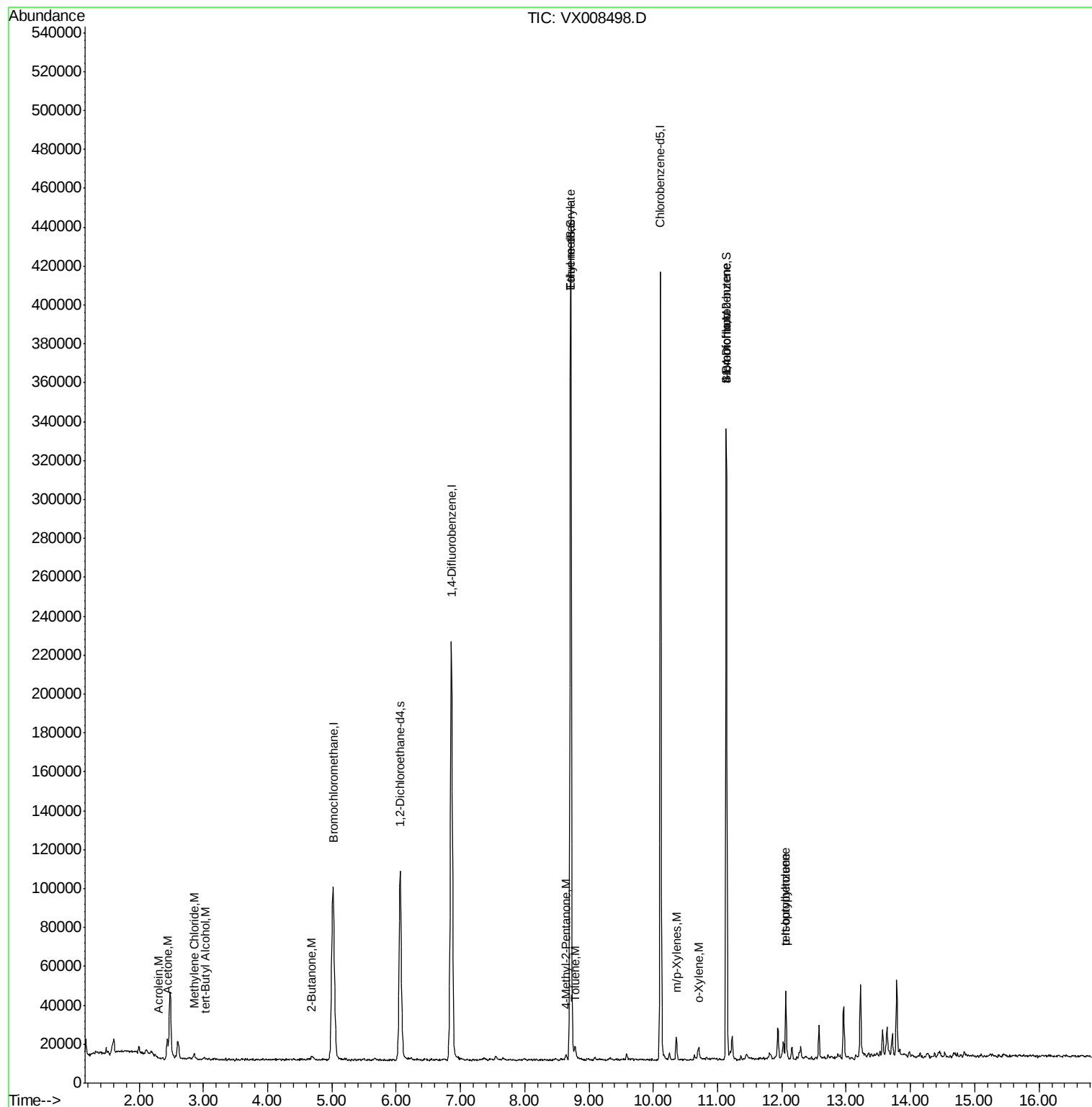
					Ovalue
13) Acrolein	2.29	56	232	0.431 ug/l	88
15) Acetone	2.44	58	3598	6.728 ug/l	89
18) Methylene Chloride	2.86	84	1312	0.474 ug/l #	87
23) tert-Butyl Alcohol	3.03	59	391	0.558 ug/l #	100
30) 2-Butanone	4.68	43	763	0.300 ug/l #	73
51) Ethyl methacrylate	8.72	69	988	0.206 ug/l	90
56) Bromoform	11.13	173	674	0.365 ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	1521	0.321 ug/l #	84
62) Toluene	8.78	91	3189	0.294 ug/l	98
67) m/p-Xylenes	10.36	106	2610	0.594 ug/l	95
68) o-Xylene	10.70	106	1046	0.243 ug/l	90
77) t-1,4-Dichloro-2-butene	11.13	75	45056	32.778 ug/l #	6
79) tert-butylbenzene	12.06	119	14249	1.437 ug/l	96
82) p-Isopropyltoluene	12.06	119	14249	1.437 ug/l	96

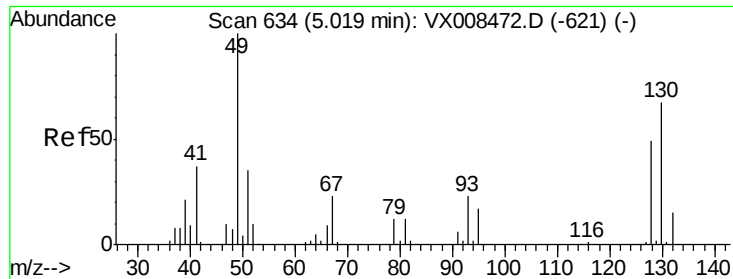
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-B

Quant Time: Mar 28 02:11:26 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008498.D

Acq: 27 Mar 2019 21:16

Instrument :

MSVOA_X

ClientSampleId :

MH-C05-SETTLED-3H-B

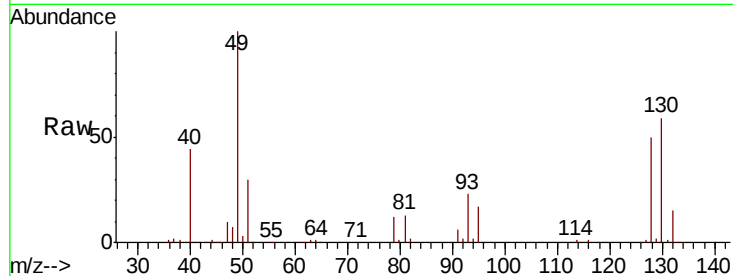
Tot Ion:128 Resp: 36546

Ion Ratio Lower Upper

128 100

49 200.5 0.0 350.8

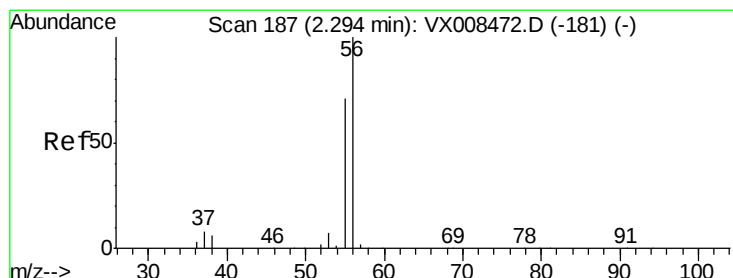
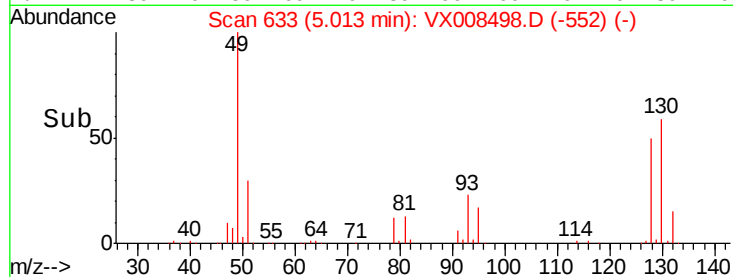
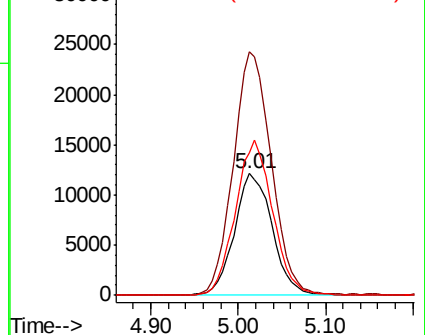
130 125.7 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.431 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008498.D

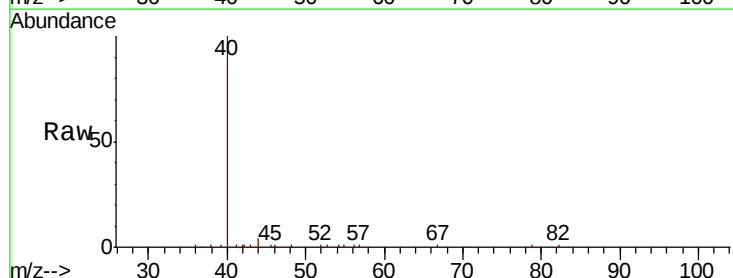
Acq: 27 Mar 2019 21:16

Tgt Ion: 56 Resp: 232

Ion Ratio Lower Upper

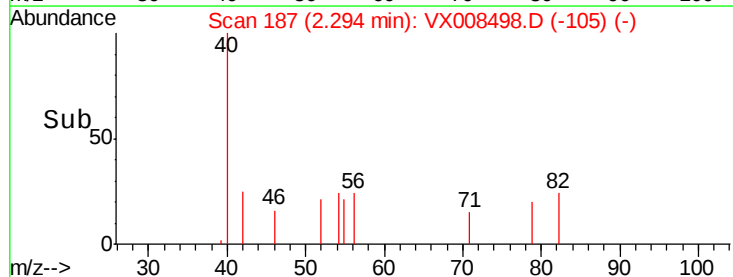
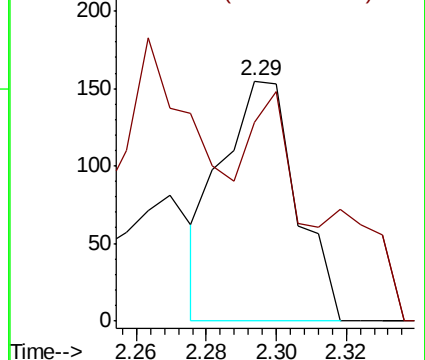
56 100

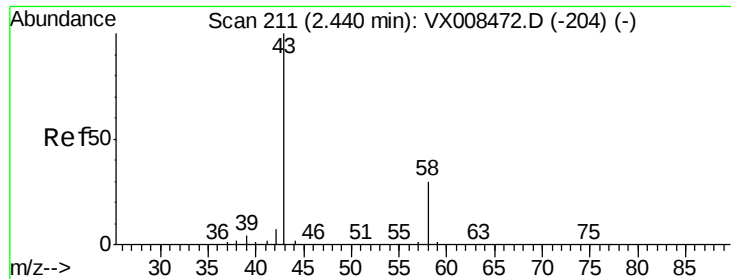
55 62.9 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 6.728 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008498.D

Acq: 27 Mar 2019 21:16

Instrument :

MSVOA_X

ClientSampleId :

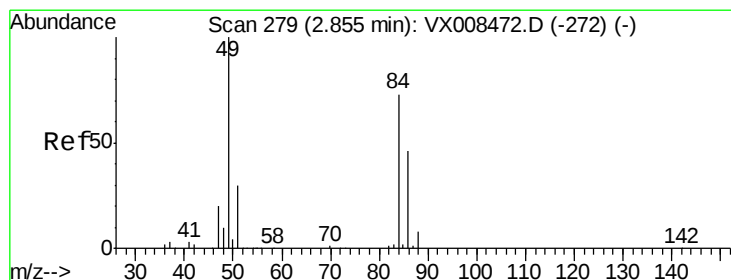
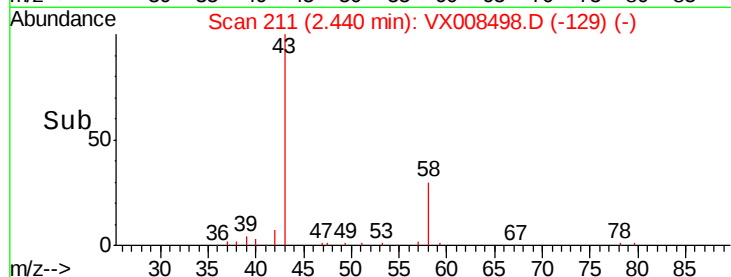
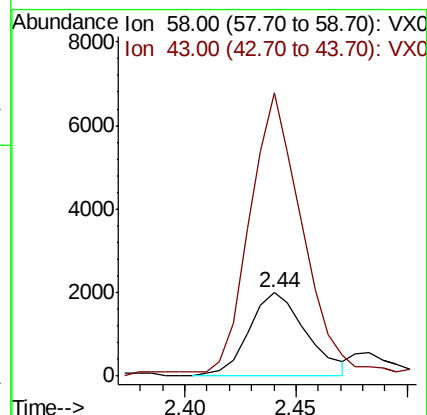
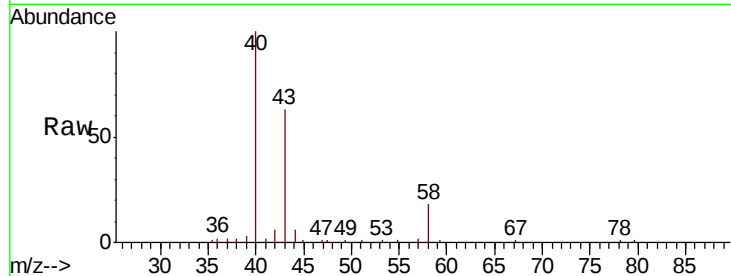
MH-C05-SETTLED-3H-B

Tot Ion: 58 Resp: 3598

Ion Ratio Lower Upper

58 100

43 334.8 249.8 374.6



#18

Methylene Chloride

Concen: 0.474 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008498.D

Acq: 27 Mar 2019 21:16

Tgt Ion: 84 Resp: 1312

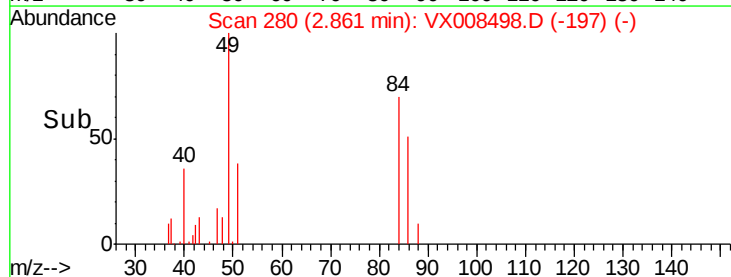
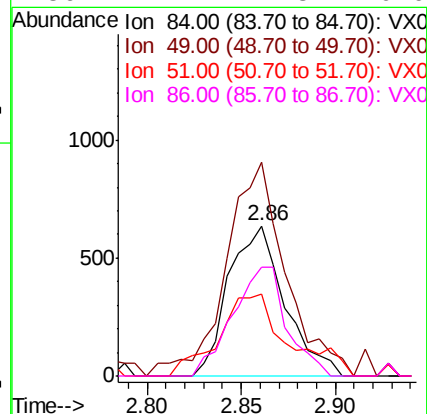
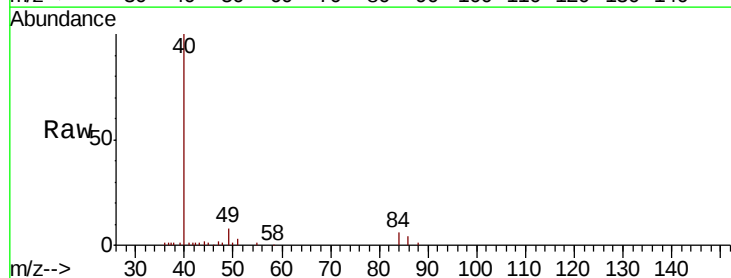
Ion Ratio Lower Upper

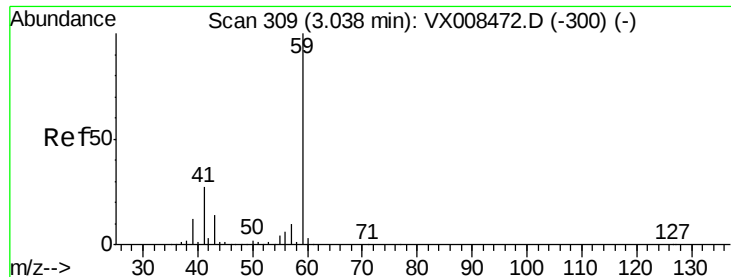
84 100

49 131.4 96.1 144.1

51 44.3 29.1 43.7#

86 72.2 47.3 70.9#





#23

tert-Butyl Alcohol

Concen: 0.558 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.01 min

Lab File: VX008498.D

Acq: 27 Mar 2019 21:16

Instrument :

MSVOA_X

ClientSampleId :

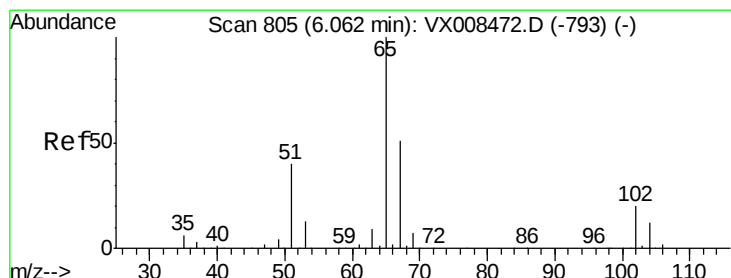
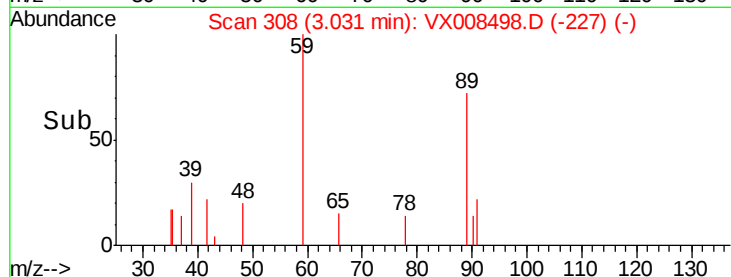
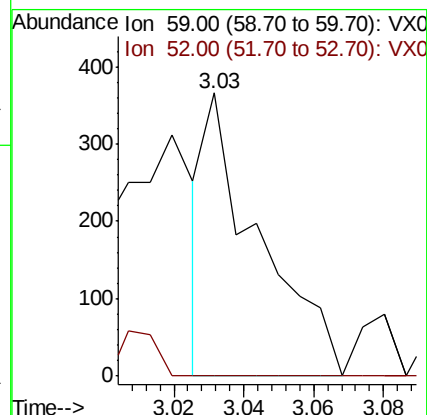
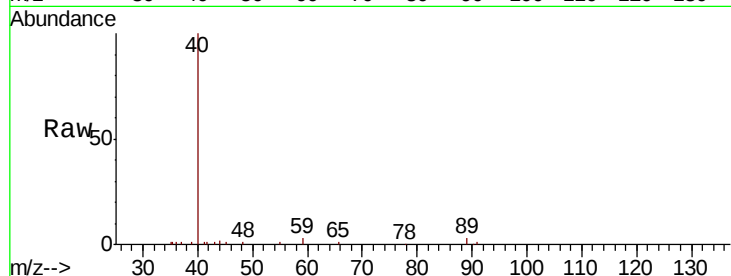
MH-C05-SETTLED-3H-B

Tot Ion: 59 Resp: 391

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.2#



#27

1,2-Dichloroethane-d4

Concen: 29.823 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008498.D

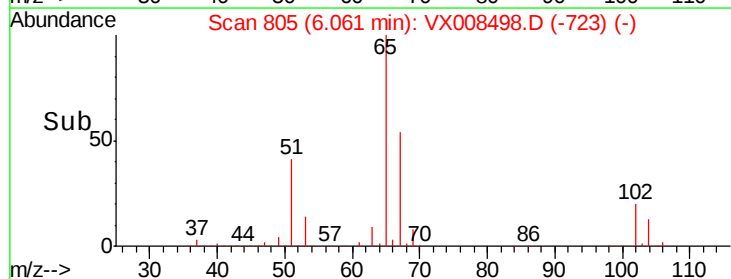
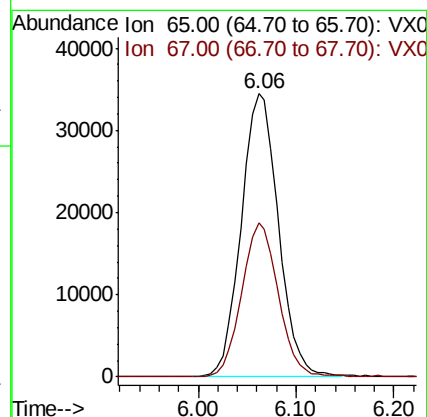
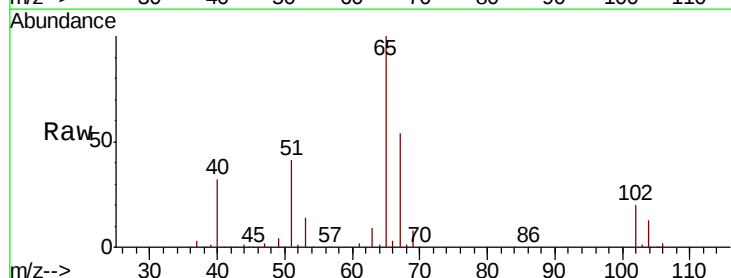
Acq: 27 Mar 2019 21:16

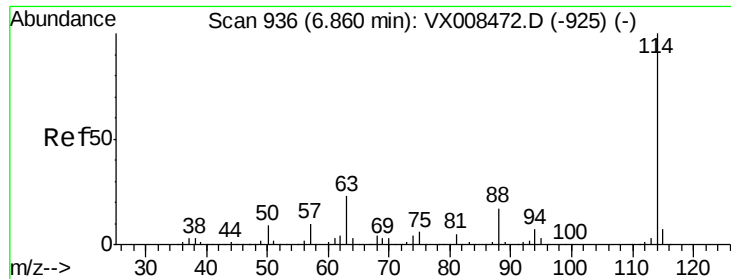
Tgt Ion: 65 Resp: 91176

Ion Ratio Lower Upper

65 100

67 53.6 42.9 64.3

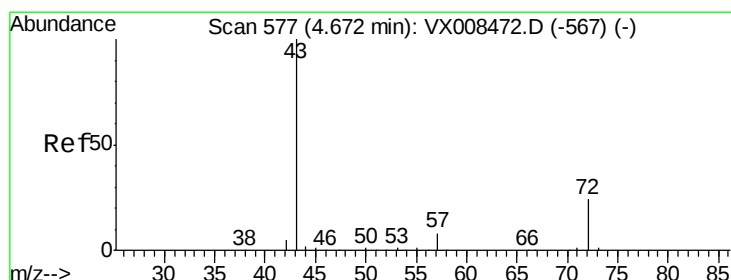
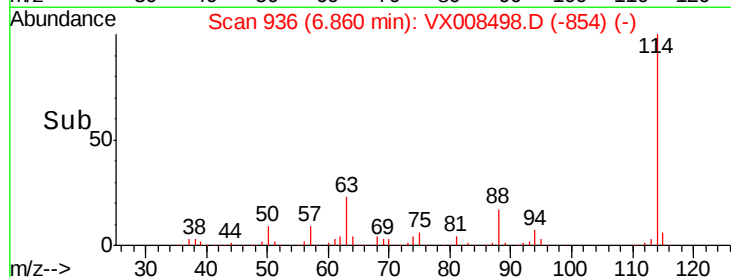
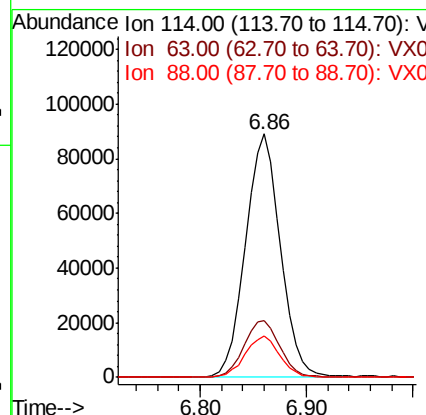
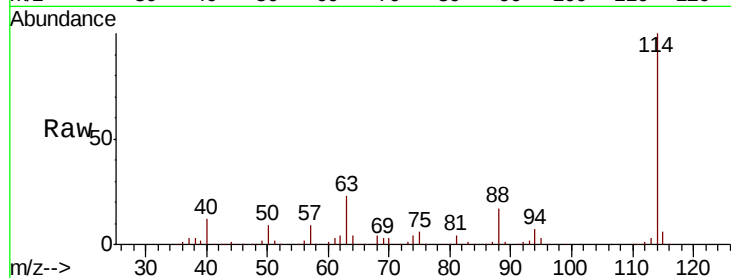




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008498.D
 Acq: 27 Mar 2019 21:16

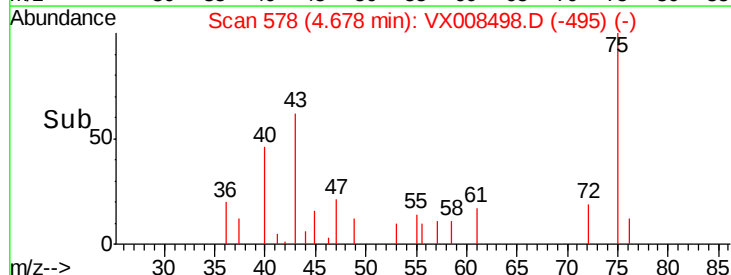
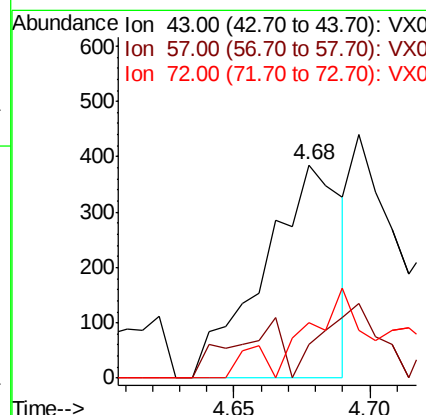
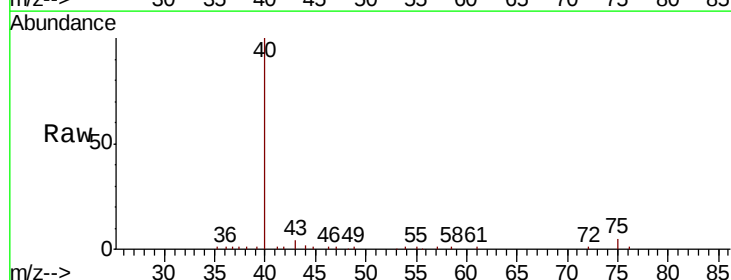
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-C05-SETTLED-3H-B

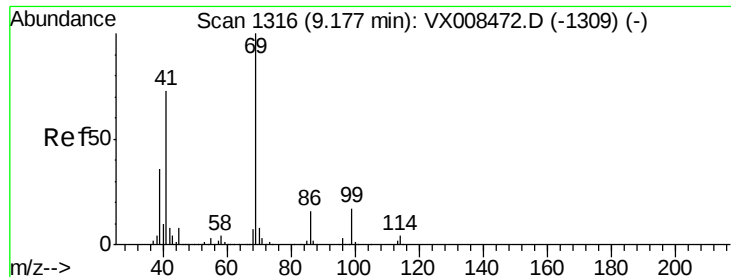
Tot Ion:114 Resp: 205245
 Ion Ratio Lower Upper
 114 100
 63 24.0 14.2 21.4#
 88 17.0 11.9 17.9



#30
 2-Butanone
 Concen: 0.300 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VX008498.D
 Acq: 27 Mar 2019 21:16

Tgt Ion: 43 Resp: 763
 Ion Ratio Lower Upper
 43 100
 57 0.0 7.0 10.6#
 72 12.5 21.5 32.3#

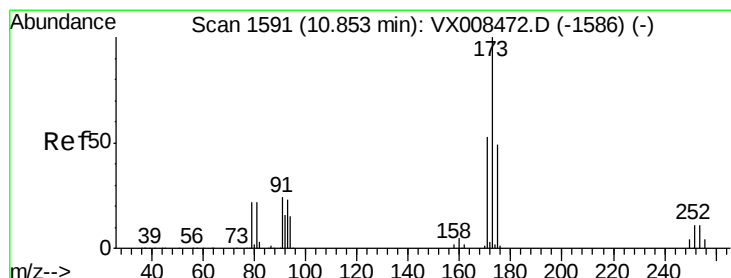
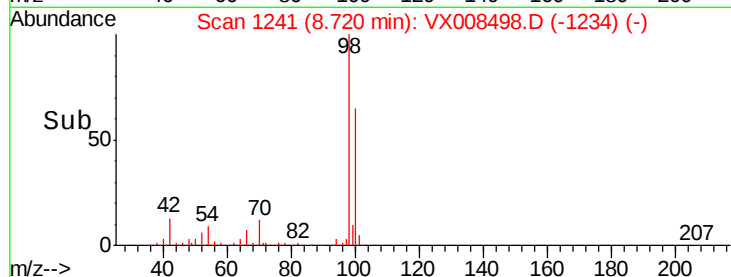
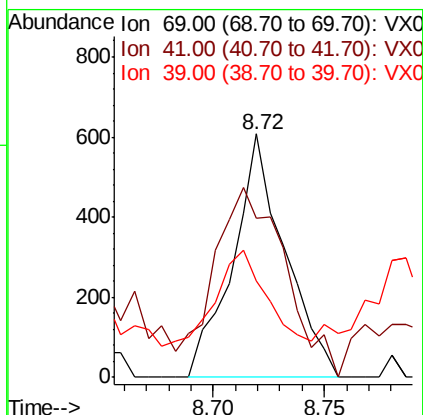
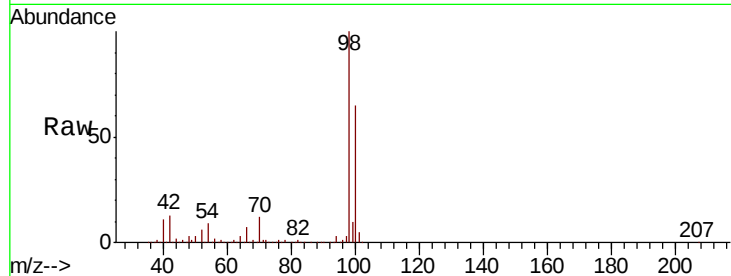




#51
Ethyl methacrylate
Concen: 0.206 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.46 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

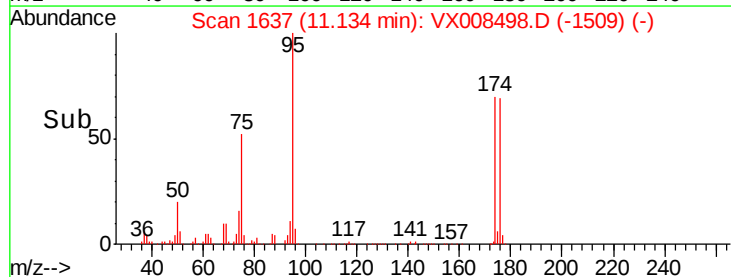
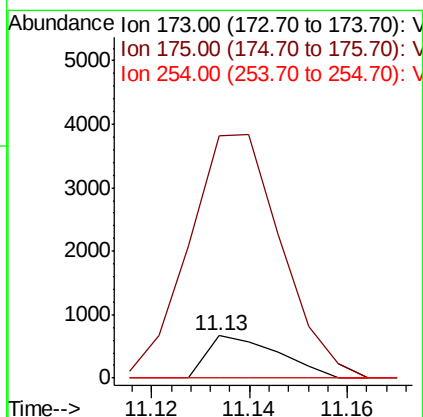
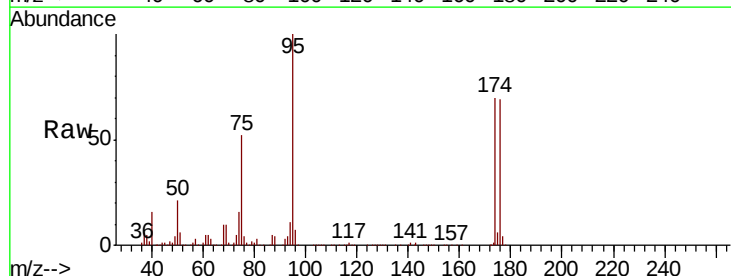
Instrument :
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ClientSampleId :
MH-C05-SETTLED-3H-B

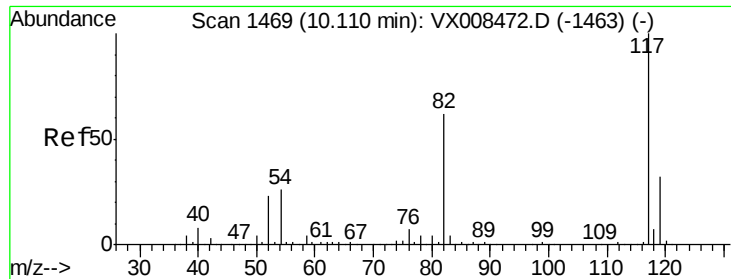
Tot Ion: 69 Resp: 988
Ion Ratio Lower Upper
69 100
41 65.5 32.1 96.5
39 23.4 18.8 56.3



#56
Bromoform
Concen: 0.365 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.28 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Tgt Ion: 173 Resp: 674
Ion Ratio Lower Upper
173 100
175 750.3 38.5 57.7#
254 0.0 7.4 11.2#

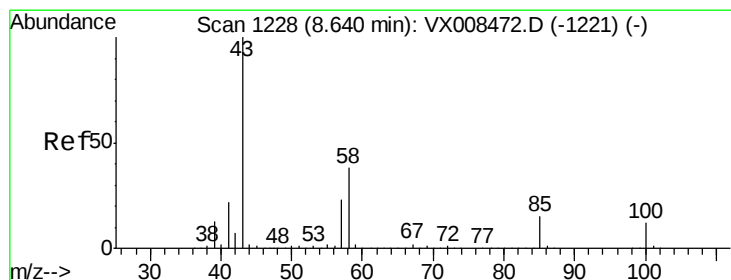
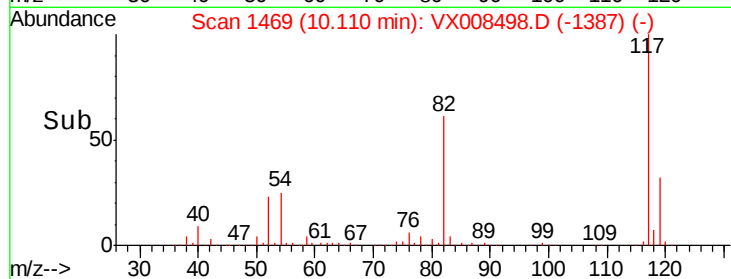
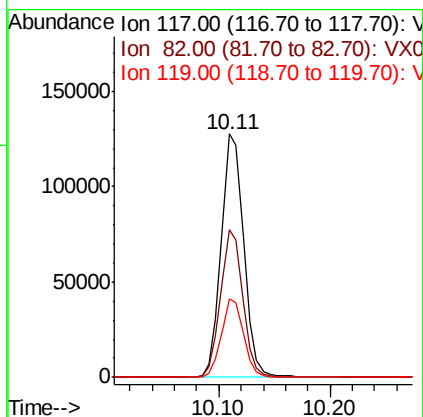
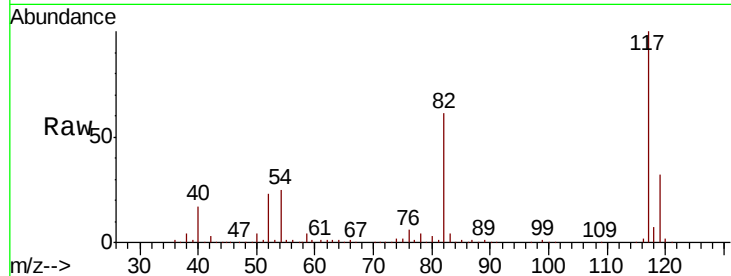




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

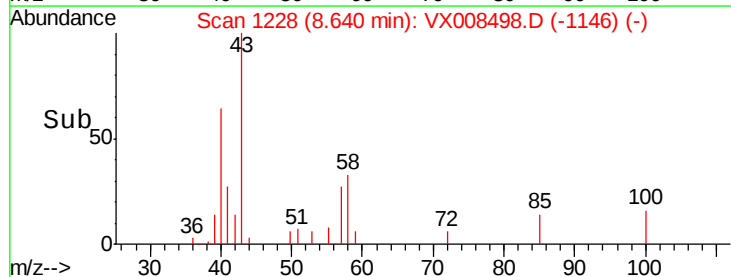
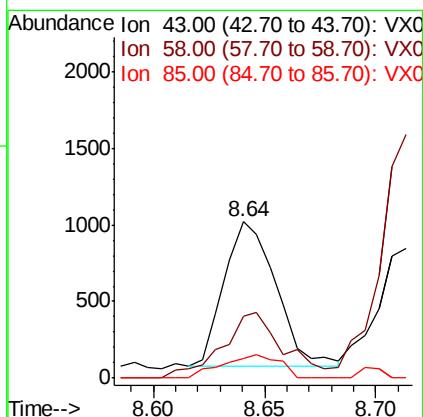
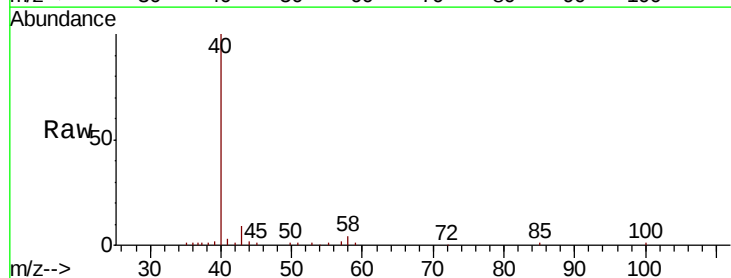
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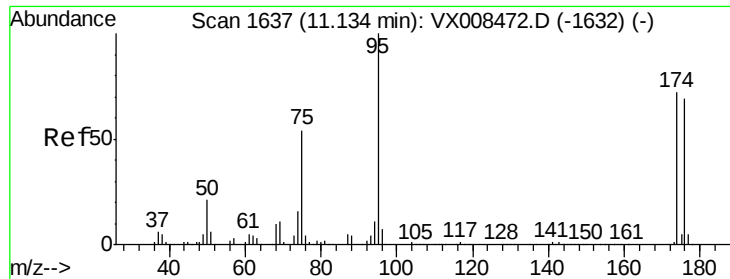
Tot Ion:117 Resp: 179357
Ion Ratio Lower Upper
117 100
82 60.0 40.4 60.6
119 31.6 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.321 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Tgt Ion: 43 Resp: 1521
Ion Ratio Lower Upper
43 100
58 53.5 31.4 47.0#
85 18.0 15.0 22.6

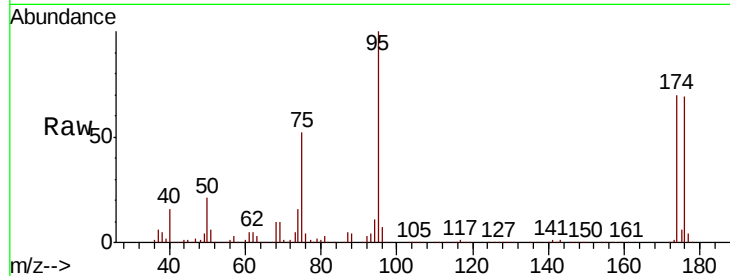




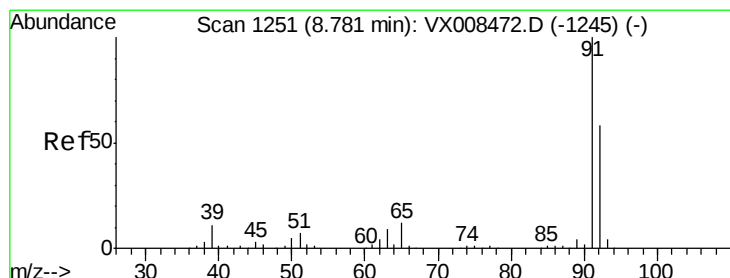
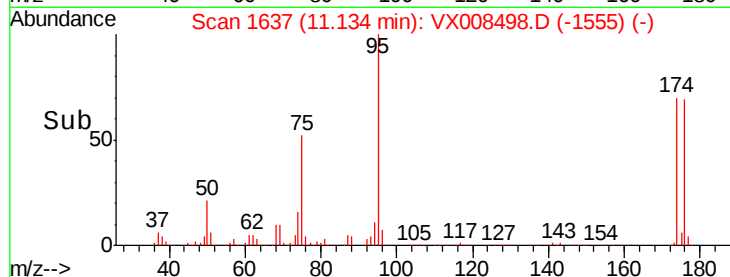
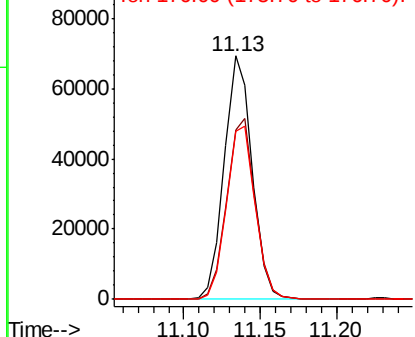
#60
4-Bromofluorobenzene
Concen: 27.901 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-B

Tot Ion: 95 Resp: 87192
Ion Ratio Lower Upper
95 100
174 76.1 74.9 112.3
176 73.8 70.7 106.1

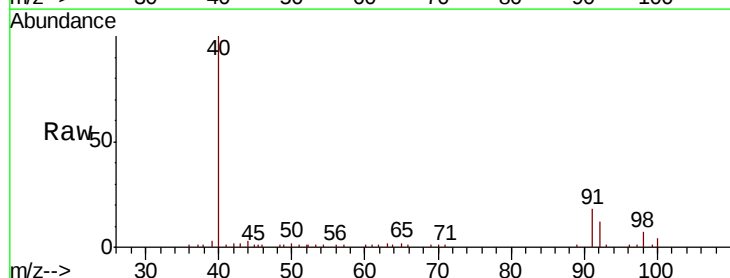


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

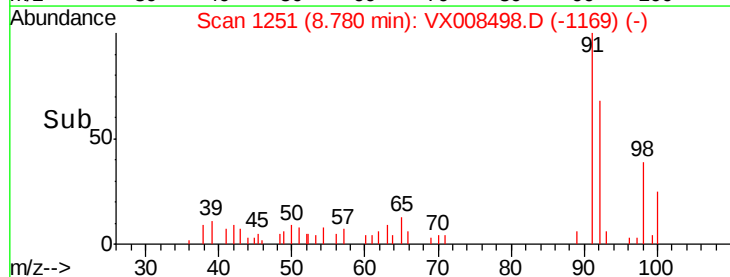
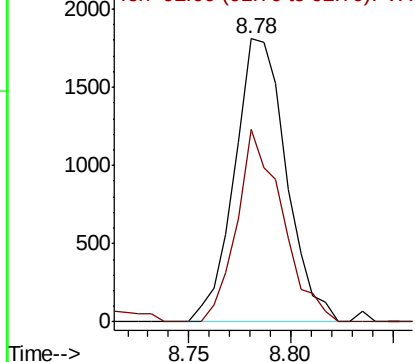


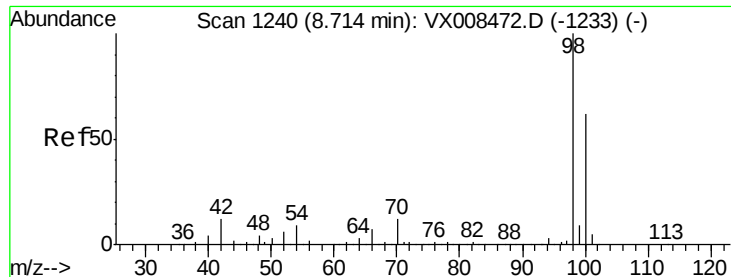
#62
Toluene
Concen: 0.294 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Tgt Ion: 91 Resp: 3189
Ion Ratio Lower Upper
91 100
92 59.8 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.284 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008498.D

Acq: 27 Mar 2019 21:16

Instrument :

MSVOA_X

ClientSampleId :

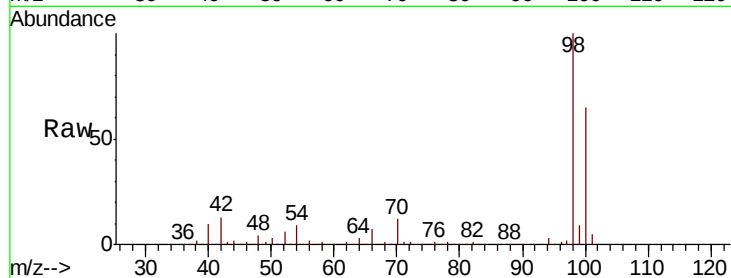
MH-C05-SETTLED-3H-B

Tot Ion: 98 Resp: 257830

Ion Ratio Lower Upper

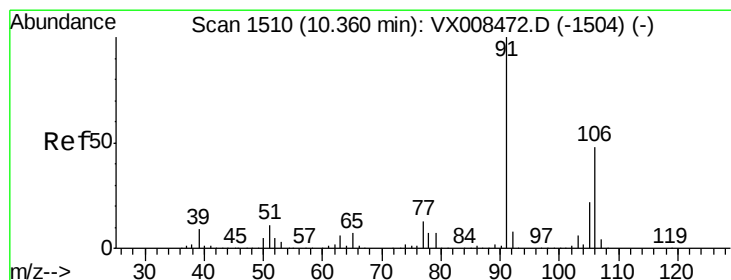
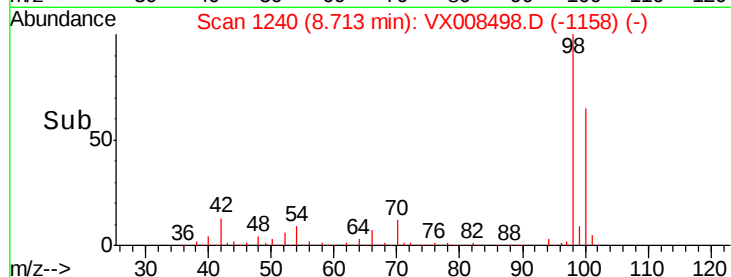
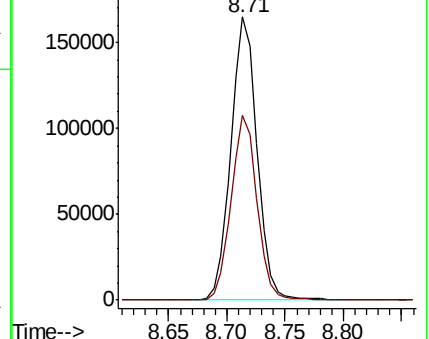
98 100

100 64.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#67

m/p-Xylenes

Concen: 0.594 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008498.D

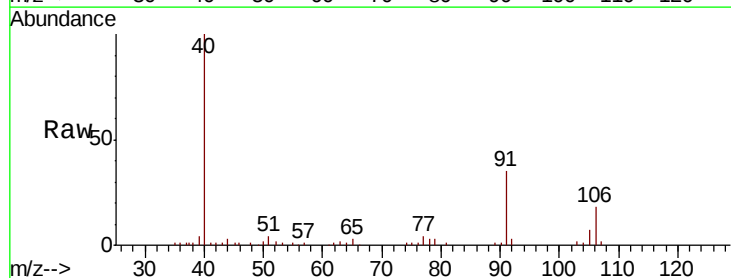
Acq: 27 Mar 2019 21:16

Tgt Ion:106 Resp: 2610

Ion Ratio Lower Upper

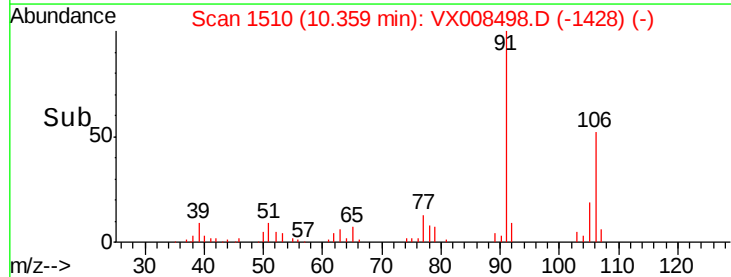
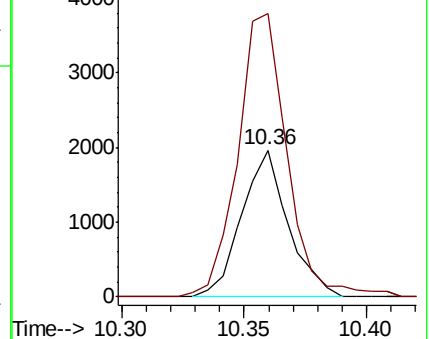
106 100

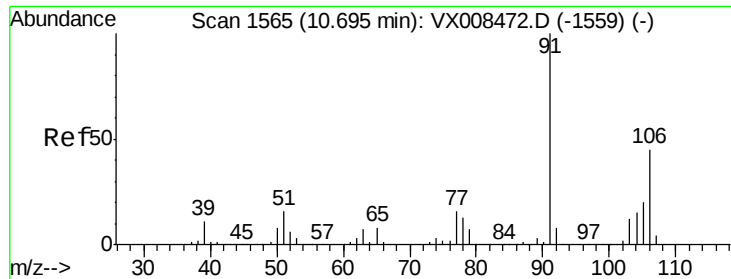
91 203.0 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

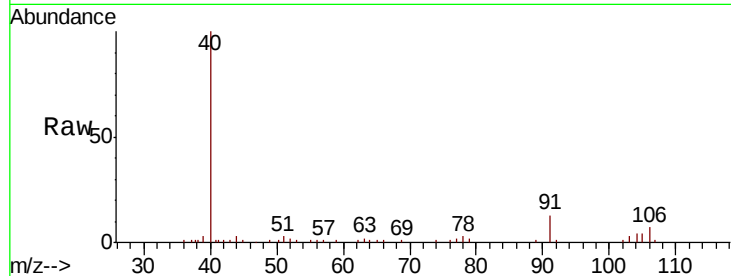




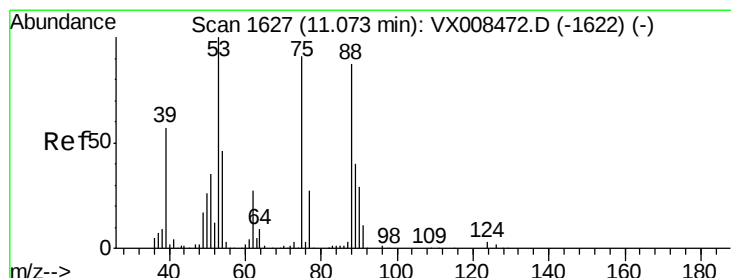
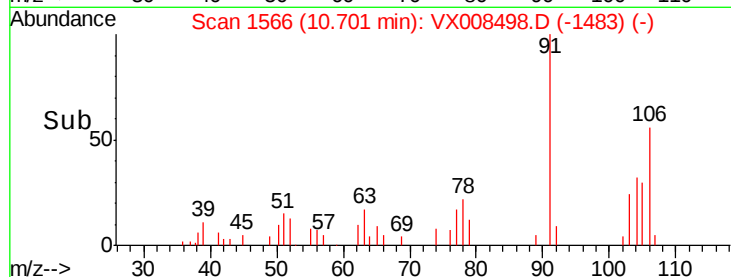
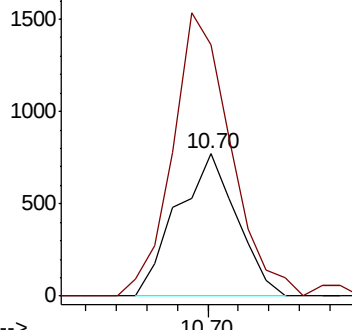
#68
o-Xylene
Concen: 0.243 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-B

Tot Ion: 106 Resp: 1046
Ion Ratio Lower Upper
106 100
91 192.5 104.4 313.2

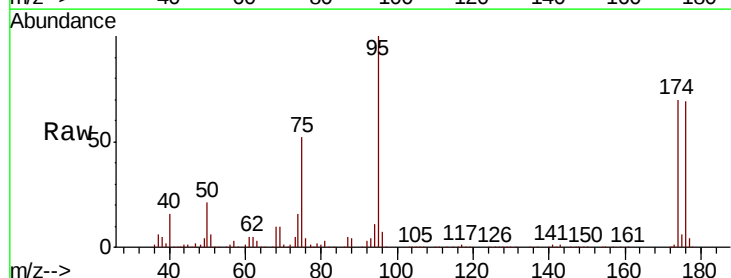


Abundance Ion 106.00 (105.70 to 106.70): VX0
Ion 91.00 (90.70 to 91.70): VX0

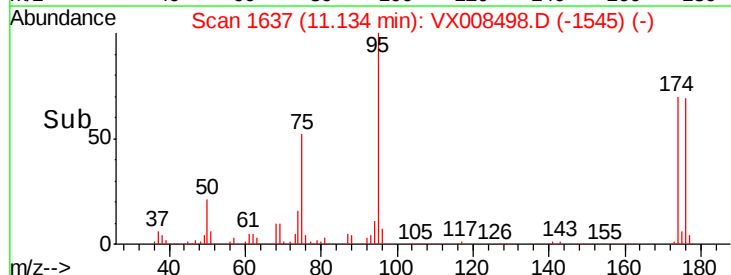
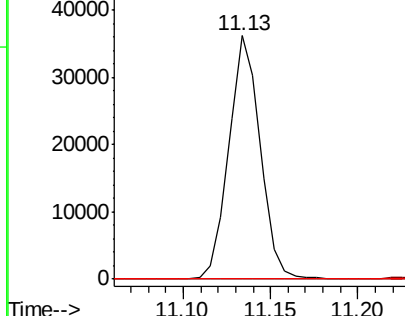


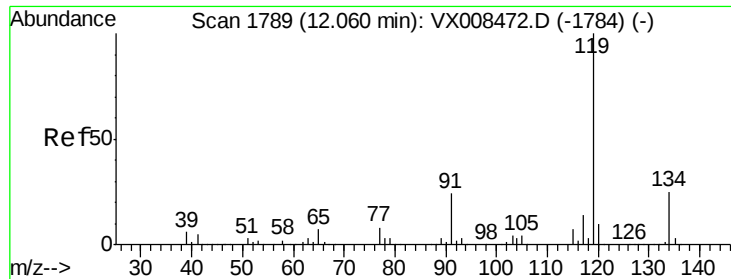
#77
t-1,4-Dichloro-2-butene
Concen: 32.778 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Tgt Ion: 75 Resp: 45056
Ion Ratio Lower Upper
75 100
53 0.2 55.5 166.7#
89 0.0 24.4 73.2#



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0

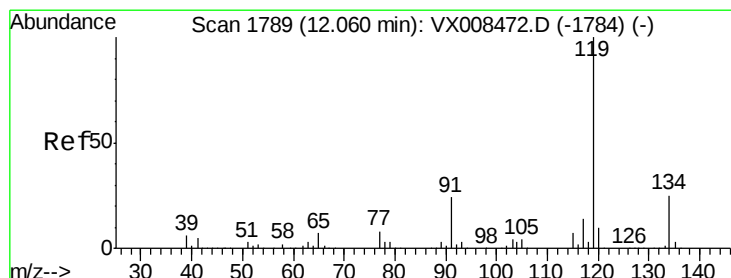
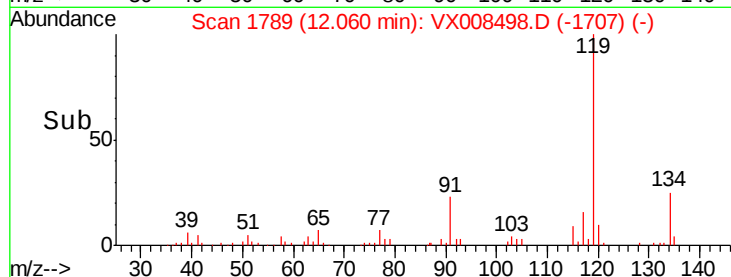
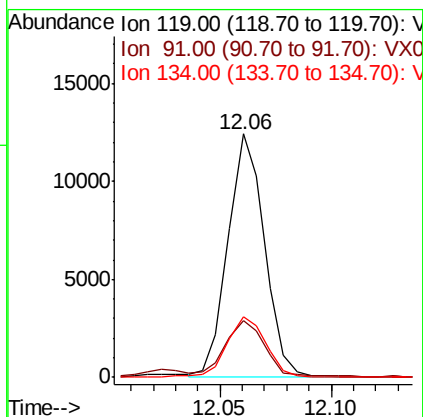
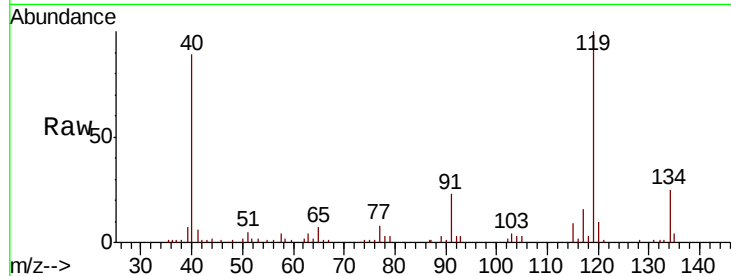




#79
tert-butylbenzene
Concen: 1.437 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Instrument :
MSVOA_X
ClientSampleId :
MH-C05-SETTLED-3H-B

Tot Ion:119 Resp: 14249
Ion Ratio Lower Upper
119 100
91 24.7 0.0 45.0
134 26.3 0.0 55.4



#82
p-Isopropyltoluene
Concen: 1.437 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX008498.D
Acq: 27 Mar 2019 21:16

Tgt Ion:119 Resp: 14249
Ion Ratio Lower Upper
119 100
134 26.3 0.0 55.4
91 24.7 0.0 45.0

